FILE 'HOME' ENTERED AT 15:42:50 ON 08 JAN 2003

=> file reg

E1

E2

E3

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST 0.21 0.21

FILE 'REGISTRY' ENTERED AT 15:42:59 ON 08 JAN 2003

FRAGMENT)/CN

0 --> APOLIPOPROTEIN C-II/CN

FIDE KEGISI	ENIERED AI 15:42:59 ON 06 DAN 2003				
=> e apolipr	cein cii/cn				
E1 .	APOLIPROTEIN A-I BINDING PROTEIN (HUMAN GENE APOA1BP PRECUR: OR)/CN				
E2	APOLIPROTEIN A-I BINDING PROTEIN (MOUSE STRAIN SWISS_WEBSTER GENE APOA1BP)/CN				
E3)> APOLIPROTEIN CII/CN				
E4	APOLIR/CN				
E5	APOLIT 081/CN				
E6	APOLIT 932/CN				
E7	APOLIT SUP 403BMT/CN				
E8	APOLIT UP 002BMT/CN				
E9	APOLITE 8322/CN				
E10	APOLITE L/CN				
E11	APOLIZUMAB/CN				
E12	APOLLENE ND 25D/CN				
=> e apolipr	ein/cn				
E1	APOLIPOPROTEINS, A-I/CN				
E2	APOLIPOPROTEINS, B-100 (HUMAN ARTERY WALL CELL-BINDING DOMA:				
	N)/CN				
E3)> APOLIPROTEIN/CN				
E4	APOLIPROTEIN A-I BINDING PROTEIN (HUMAN GENE APOA1BP PRECURS				
T.F.	OR)/CN				
E5	APOLIPROTEIN A-I BINDING PROTEIN (MOUSE STRAIN SWISS_WEBSTER				
E6	GENE APOA1BP)/CN APOLIR/CN				
E7	APOLIT 081/CN				
E8	APOLIT 932/CN				
E9	APOLIT SUP 403BMT/CN				
E10	APOLIT UP 002BMT/CN				
E11	APOLITE 8322/CN				
E12	APOLITE L/CN				
- 1					
=> e apolipr					
E1	APOLIPROTEIN A-I BINDING PROTEIN (HUMAN GENE APOA1BP PRECURS OR)/CN				
E2	APOLIPROTEIN A-I BINDING PROTEIN (MOUSE STRAIN SWISS_WEBSTER				
 -	GENE APOA1BP)/CN				
E3	> APOLIPROTEIN C-II/CN				
E4	APOLIR/CN				
E5	APOLIT 081/CN				
E6	APOLIT 932/CN				
E7	APOLIT SUP 403BMT/CN				
E8	APOLIT UP 002BMT/CN				
E9	APOLITE 8322/CN				
E10	APOLITE L/CN				
E11	APOLIZUMAB/CN				
E12	APOLLENE ND 25D/CN				
	entoin a ii/an				
=> e apolipoprotein c-ii/cn					

APOLIPOPROTEIN C-I (HUMAN CLONE F19374 GENE APOC1 N-TERMINAL

APOLIPOPROTEIN C-I (TUPAIA GLIS PRECURSOR)/CN

```
APOLIPOPROTEIN C-II (CHICKEN CLONE T1 C-TERMINAL FRAGMENT)/C
E4
             1
E5
             1
                   APOLIPOPROTEIN C-II (ONCORHYNCHUS MYKISS PRECURSOR)/CN
                   APOLIPOPROTEIN C-III (CAVIA PORCELLUS LIVER PRECURSOR)/CN
E6
             1
                   APOLIPOPROTEIN C-III (HUMAN GENE APOC3 ISOENZYME APOC-III-AL
             1
E7
                   A23)/CN
                   APOLIPOPROTEIN C-III (HUMAN GENE APOC3 ISOENZYME APOC-III-TH
E8
             1
                   R23)/CN
                   APOLIPOPROTEIN C2 (CATTLE FRAGMENT)/CN
E9
             1
                   APOLIPOPROTEIN C2 (MOUSE CLONE MAPOC2C4 PRECURSOR)/CN
E10
             1
                   APOLIPOPROTEIN CII (GALLUS DOMESTICUS CLONE T1 C-TERMINAL FR
             1
E11
                   AGMENT) / CN
                   APOLIPOPROTEIN CIII (MOUSE CLONE PMCIII-4.7 GENE APOC-3 PREC
E12
             1
                   URSOR)/CN
=> s e4
             1 "APOLIPOPROTEIN C-II (CHICKEN CLONE T1 C-TERMINAL FRAGMENT)"/CN
L1
=> d
     ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS
L1
RN
     186778-73-4 REGISTRY
CN
     Apolipoprotein C-II (chicken clone T1 C-terminal fragment) (9CI)
     (CA INDEX NAME)
OTHER NAMES:
     Apolipoprotein CII (Gallus domesticus clone T1 C-terminal fragment)
FS
     PROTEIN SEOUENCE
MF
     Unspecified
CI
     MAN
SR
     CA
     STN Files: CA, CAPLUS
LC
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
               1 REFERENCES IN FILE CA (1962 TO DATE)
               1 REFERENCES IN FILE CAPLUS (1962 TO DATE)
  e anolinoproteir d/cm
```

=> e apolipoprotein c/cn							
El	1	APOLIPOPROTEIN B48 RECEPTOR (HUMAN PLACENTA GENE APOB48R ISO					
		FORM 2)/CN					
E2	1	APOLIPOPROTEIN B48 RECEPTOR (HUMAN THP-1 MONOCYTE-MACROPHAGE					
CELL GENE APOB48R)/CN							
E3	0>	APOLIPOPROTEIN C/CN					
E4	1	APOLIPOPROTEIN C-I (HUMAN CLONE F19374 GENE APOC1 N-TERMINAL					
		FRAGMENT) / CN					
E5	1	APOLIPOPROTEIN C-I (TUPAIA GLIS PRECURSOR)/CN					
E6	1	APOLIPOPROTEIN C-II (CHICKEN CLONE T1 C-TERMINAL FRAGMENT)/C					
		N					
E7	1	APOLIPOPROTEIN C-II (ONCORHYNCHUS MYKISS PRECURSOR)/CN					
E8	1	APOLIPOPROTEIN C-III (CAVIA PORCELLUS LIVER PRECURSOR)/CN					
E9	1	APOLIPOPROTEIN C-III (HUMAN GENE APOC3 ISOENZYME APOC-III-AL					
		A23)/CN					
E10	1	APOLIPOPROTEIN C-III (HUMAN GENE APOC3 ISOENZYME APOC-III-TH					
		R23)/CN					
E11	1	APOLIPOPROTEIN C2 (CATTLE FRAGMENT)/CN					
E12	1	APOLIPOPROTEIN C2 (MOUSE CLONE MAPOC2C4 PRECURSOR)/CN					
=> e							
E13	1	APOLIPOPROTEIN CII (GALLUS DOMESTICUS CLONE T1 C-TERMINAL FR					
		AGMENT) / CN					
E14	1	APOLIPOPROTEIN CIII (MOUSE CLONE PMCIII-4.7 GENE APOC-3 PREC					
		URSOR) / CN					
E15	1	APOLIPOPROTEIN D (BELGIAN LANDRACE SWINE GENE APOD FRAGMENT)					

```
/CN
                   APOLIPOPROTEIN D (GUINEA PIG CLONE GP-APO D-20)/CN
E16
             1
                   APOLIPOPROTEIN D (MACACA FASCICULARIS CLONE QCCE-15083 GENE
E17
             1
                   APOD) / CN
             1
                   APOLIPOPROTEIN D (MOUSE STRAIN SWISS WEBSTER GENE APOD)/CN
E18
                   APOLIPOPROTEIN E (CATTLE GENE APOE)/CN
E19
             1
             1
                   APOLIPOPROTEIN E (DANIO RERIO CLONE E1 GENE APOE PRECURSOR) /
E20
                   CN
                   APOLIPOPROTEIN E (DANIO RERIO PRECURSOR)/CN
E21
             1
                   APOLIPOPROTEIN E (HUMAN CLONE F19374 GENE APOE)/CN
E22
             1
             2
                   APOLIPOPROTEIN E (HUMAN CLONE PHAE (112, 178, 813). GENE APOE) /
E23
                   CN
                   APOLIPOPROTEIN E (HUMAN GENE APOE ISOFORM 1)/CN
E24
             1
=> s e12
             1 "APOLIPOPROTEIN C2 (MOUSE CLONE MAPOC2C4 PRECURSOR)"/CN
L2
=> d
     ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS
L2
     151688-85-6 REGISTRY
RN
     Lipoprotein C-II, pre- (mouse clone mAPOC2c4) (9CI) (CA INDEX NAME)
CN
OTHER NAMES:
CN
     Apolipoprotein C2 (mouse clone mAPOC2c4 precursor)
FS
     PROTEIN SEQUENCE
MF
     Unspecified
CI
     MAN
SR
     CA
LC
     STN Files: CA, CAPLUS
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
               1 REFERENCES IN FILE CA (1962 TO DATE)
               1 REFERENCES IN FILE CAPLUS (1962 TO DATE)
=> e apolp-glu/cn
                   APOLLON/CN
E1
             1
E2
             1
                   APOLON B6/CN
E3
             0 --> APOLP-GLU/CN
                   APOLUDIN/CN
E4
             1
E5
             1
                   APOLUDIN, ANHYDRODEHYDRO-/CN
                   APOMATE/CN
E6
            1
                   APOMETHSCOPOLAMINE/CN
E7
            1
E8
            1
                   APOMETHSCOPOLAMINE NITRATE/CN
E9
                   APOMETZGERIN/CN
            1
                   APOMIGREN (HUMAN)/CN
E10
            1
E11
            1
                   APOMINE/CN
E12
            1
                   APOMINE BLACK GX/CN
=> file ca
COST IN U.S. DOLLARS
                                                  SINCE FILE
                                                                  TOTAL
                                                       ENTRY
                                                                SESSION
FULL ESTIMATED COST
                                                       14.60
                                                                  14.81
FILE 'CA' ENTERED AT 15:47:00 ON 08 JAN 2003
=> s bensadoun a/au and py=1974
            19 BENSADOUN A/AU
        416555 PY=1974
L3
             0 BENSADOUN A/AU AND PY=1974
=> file biosis embase medline
COST IN U.S. DOLLARS
                                                  SINCE FILE
                                                                  TOTAL
                                                       ENTRY
                                                                SESSION
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FILE 'MEDLINE' ENTERED AT 15:47:42 ON 08 JAN 2003

=> s bensadoun a/au and py=1974

L4 4 BENSADOUN A/AU AND PY=1974

=> dup rem 14

PROCESSING COMPLETED FOR L4

L5 2 DUP REM L4 (2 DUPLICATES REMOVED)
ANSWERS '1-2' FROM FILE BIOSIS

=> d 1-2

L5 ANSWER 1 OF 2 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE 1

AN 1974:183917 BIOSIS

DN BA58:13611

TI PURIFICATION AND CHARACTERIZATION OF LIPO PROTEIN LIPASE EC-3.1.1.3 FROM PIG ADIPOSE TISSUE.

AU BENSADOUN A; EHNHOLM C; STEINBERG D; BROWN W V

SO J BIOL CHEM, (1974) 249 (7), 2220-2227. CODEN: JBCHA3. ISSN: 0021-9258.

FS BA; OLD

LA Unavailable

L5 ANSWER 2 OF 2 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

AN 1974:37502 BIOSIS

DN BR10:37502

TI EFFECTS OF FASTING ON TRI GLYCERIDE HYDROLASE ACTIVITY OF CHICKEN AND RAT PLASMA.

AU BENSON J D; HEARN V; BENSADOUN A

SO Fed. Proc., (1974) 33 (3 PART 1), 664. CODEN: FEPRA7. ISSN: 0014-9446.

DT Conference

FS BR; OLD

LA Unavailable

=> file ca

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 5.60 24.09

FULL ESTIMATED COST

FILE 'CA' ENTERED AT 15:48:20 ON 08 JAN 2003

=> s bensadoun a?/au and py=1974

91 BENSADOUN A?/AU

416555 PY=1974

L6 1 BENSADOUN A?/AU AND PY=1974

=> d

L6 ANSWER 1 OF 1 CA COPYRIGHT 2003 ACS

AN 81:768 CA

TI Purification and characterization of lipoprotein lipase from pig adipose tissue

AU Bensadoun, Andre; Ehnholm, Christian; Steinberg, Daniel; Brown, W. Virgil

CS Dep. Med., Univ. California, La Jolla, CA, USA

```
SO Journal of Biological Chemistry (1974), 249(7), 2220-7
CODEN: JBCHA3; ISSN: 0021-9258
```

DT Journal

LA English

=> d all

L6 ANSWER 1 OF 1 CA COPYRIGHT 2003 ACS

AN 81:768 CA

- TI Purification and characterization of lipoprotein lipase from pig adipose tissue
- AU Bensadoun, Andre; Ehnholm, Christian; Steinberg, Daniel; Brown, W. Virgil
- CS Dep. Med., Univ. California, La Jolla, CA, USA
- SO Journal of Biological Chemistry (1974), 249(7), 2220-7 CODEN: JBCHA3; ISSN: 0021-9258
- DT Journal
- LA English
- CC 7-2 (Enzymes)
- AB Lipoprotein lipase was purified from Me2CO powders of pig adipose tissue. Extn. of Me2CO powders with 1.2M m NaCl in 0.005M Na barbital buffer, pH 7.4, or heparin (200 units/ml) in distilled H2O, was 6 times as effective as extn. with 0.025M NH4OH-NH4Cl buffer, pH 8.6, the commonly used extractant for lipoprotein lipase. At pH <7.5, over 85% of the activity extd. into 1.2M NaCl could be recovered after 4 hr. The partially purified enzyme at later stages was stabilized by the inclusion of 20% glycerol in the buffers. Most of the purifn. was accomplished by affinity chromatog. on Sepharose 4B columns contg. covalently bound heparin. At this step, the prepn. was purified 600-fold. This purified enzyme was bound reversibly to columns contg. concanavalin A covalently bound to Sepharose. Lipolytic activity was eluted from the concanavalin A-Sepharose column with 0.2M .alpha.-methyl-D-mannoside, M NaCl and 0.005MNa barbital, pH 7.0. At this stage, the enzyme was purified Isoelec. focusing yielded a single major peak of activity with 2100-fold. an isoelec. point of 4.0. Min. mol. wt. detn. by gel filtration in buffers contg. M NaCl and by disc gel electrophoresis in Na dodecyl sulfate yielded values of 62,000 and 60,000, resp. The crude enzyme, and that eluted from heparin-Sepharose columns, did not show stimulation by heparin, whereas that obtained after isoelec focusing exhibited a 60-100% stimulation at 22 .mu.g heparin/ml. Activation by dialyzed serum was dependent on the stage of purifn. The crude enzyme showed a 20-fold stimulation by serum but showed some activity in its absence; that purified by isoelec. focusing exhibited a complete dependence on the presence of serum for hydrolysis of triolein emulsions stabilized with qum arabic. Of the 3 very-low-density lipoprotein apoproteins studied, only apoLp-glutamic acid (apolipoprotein contg. C terminal glutamic acid) could substitute for serum as an activator. In the presence of serum in the assay system, apoLp-serine was as potent an inhibitor of lipoprotein lipase as apoLp-alanine.
- ST lipoprotein lipase adipose tissue; affinity chromatog lipoprotein lipase
- IT Adipose tissue, composition

(lipoprotein lipase of)

IT 9004-02-8

RL: BIOL (Biological study)
 (of adipose tissue, of pig)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	7.23	31.32
	•	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL

ENTRY SESSION -0.62 -0.62

CA SUBSCRIBER PRICE

FILE 'REGISTRY' ENTERED AT 15:48:56 ON 08 JAN 2003

=> S 9004-02-8/RN

L7 1 9004-02-8/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND SET COMMAND COMPLETED

=> D L7 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y THE ESTIMATED COST FOR THIS REQUEST IS 5.63 U.S. DOLLARS DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L7 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS

RN 9004-02-8 REGISTRY

CN Lipase, lipoprotein (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Clearing factor

CN Clearing factor lipase

CN E.C. 3.1.1.34

CN Lipemia-clearing factor

CN Lipoprotein lipase

CN LPL Amano 3

CN Postheparin lipase

CN Postheparin plasma lipoprotein lipase

DR 9007-29-8, 9013-98-3

MF Unspecified

CI MAN

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, EMBASE, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, NIOSHTIC, PROMT, TOXCENTER, USPAT2, USPATFULL

(*File contains numerically searchable property data)
Other Sources: EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

5611 REFERENCES IN FILE CA (1962 TO DATE)

30 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

0.00

-0.62

5628 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> SET NOTICE LOGIN DISPLAY

CA SUBSCRIBER PRICE

NOTICE SET TO OFF FOR DISPLAY COMMAND SET COMMAND COMPLETED

=>

=> file biosis embase medline

COST IN U.S. DOLLARS

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

SINCE FILE

TOTAL

ENTRY

SESSION

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FILE 'EMBASE' ENTERED AT 15:49:55 ON 08 JAN 2003
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FILE 'MEDLINE' ENTERED AT 15:49:55 ON 08 JAN 2003
=> file ca
COST IN U.S. DOLLARS
                                                  SINCE FILE
                                                                  TOTAL
                                                       ENTRY
                                                                SESSION
FULL ESTIMATED COST
                                                        2.38
                                                                  36.18
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
                                                  SINCE FILE
                                                                  TOTAL
                                                              SESSION
                                                       ENTRY
CA SUBSCRIBER PRICE
                                                        0.00
                                                                -0.62
FILE 'CA' ENTERED AT 15:50:03 ON 08 JAN 2003
=> s apolipoprotein c-ii
         17406 APOLIPOPROTEIN
         11727 APOLIPOPROTEINS
         20369 APOLIPOPROTEIN
                 (APOLIPOPROTEIN OR APOLIPOPROTEINS)
       2916344 C
       1875132 II
           640 IIS
       1875489 II
                 (II OR IIS)
L8
           514 APOLIPOPROTEIN C-II
                 (APOLIPOPROTEIN(W)C(W)II)
=> s apolipoprotein c-ii/ti
          7833 APOLIPOPROTEIN/TI
          1312 APOLIPOPROTEINS/TI
          9069 APOLIPOPROTEIN/TI
                 ((APOLIPOPROTEIN OR APOLIPOPROTEINS)/TI)
        196808 C/TI
        435992 II/TI
            76 IIS/TI
        436063 II/TI
                 ((II OR IIS)/TI)
T.9
           154 APOLIPOPROTEIN C-II/TI
                 ((APOLIPOPROTEIN(W)C(W)II)/TI)
=> d ind 1
T.9
     ANSWER 1 OF 154 CA COPYRIGHT 2003 ACS
CC
     6-3 (General Biochemistry)
     apolipoprotein CII amyloid formation suppression clusterin
ST
TТ
     Apolipoproteins
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (C-II; suppression of apolipoprotein c-II amyloid formation by the
        extracellular chaperone, clusterin)
IT
     Human
     Protein folding
        (suppression of apolipoprotein c-II amyloid formation by the
        extracellular chaperone, clusterin)
IT
     Amyloid
     Clusterin
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (suppression of apolipoprotein c-II amyloid formation by the
        extracellular chaperone, clusterin)
```

FILE 'BIOSIS' ENTERED AT 15:49:55 ON 08 JAN 2003

```
ANSWER 2 OF 154 CA COPYRIGHT 2003 ACS
     14-10 (Mammalian Pathological Biochemistry)
CC
ST
     macromol crowding amyloid formation apolipoprotein CII Alzheimer disease
IT
     Apolipoproteins
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (C-II; macromol. crowding accelerates amyloid formation by human
        apolipoprotein C-II)
IT
     Brain, disease
     Prion diseases
        (Creutzfeldt-Jakob; macromol. crowding accelerates amyloid formation by
        human apolipoprotein C-II)
     Amyloid
IT
     RL: ADV (Adverse effect, including toxicity); BIOL (Biological study)
        (aggregation; macromol. crowding accelerates amyloid formation by human
        apolipoprotein C-II)
     Proteins
IT
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (amyloidogenic; macromol. crowding accelerates amyloid formation by
        human apolipoprotein C-II)
IT
     Alzheimer's disease
     Parkinson's disease
     Self-association
        (macromol. crowding accelerates amyloid formation by human
        apolipoprotein C-II)
IT
     Secondary structure
        (protein; macromol. crowding accelerates amyloid formation by human
        apolipoprotein C-II)
     2390-54-7, Thioflavin T 9004-54-0, Dextran T10, biological studies RL: BSU (Biological study, unclassified); BIOL (Biological study)
IT
        (macromol. crowding accelerates amyloid formation by human
        apolipoprotein C-II)
     ANSWER 3 OF 154 CA COPYRIGHT 2003 ACS
L9
CC
     13-2 (Mammalian Biochemistry)
     Section cross-reference(s): 1, 2
ST
     farnesoid X receptor apolipoprotein transcription blood triglyceride bile
     acid
IT
     Apolipoproteins
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (C-II; farnesoid X-activated receptor induces apolipoprotein C-II
        transcription in HepG2 cells in relation to mol. mechanism linking
        plasma triglyceride levels to bile acids)
ΙT
     Genetic element
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (HCR-1 and HCR-2 (hepatic control region-1 and -2); farnesoid
        X-activated receptor induces apolipoprotein C-II transcription in HepG2
        cells in relation to mol. mechanism linking plasma triglyceride levels
        to bile acids)
TΤ
     Retinoid X receptors
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (RXR.alpha.; farnesoid X-activated receptor induces apolipoprotein C-II
        transcription in HepG2 cells in relation to mol. mechanism linking
        plasma triglyceride levels to bile acids)
IT
     Glycerides, biological studies
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (blood; farnesoid X-activated receptor induces apolipoprotein C-II
        transcription in HepG2 cells in relation to mol. mechanism linking
        plasma triglyceride levels to bile acids)
TΨ
     Human
     Hypolipemic agents
     Liver
     Transcription, genetic
        (farnesoid X-activated receptor induces apolipoprotein C-II
```

```
transcription in HepG2 cells in relation to mol. mechanism linking
        plasma triglyceride levels to bile acids)
IT
     Bile acids
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (farnesoid X-activated receptor induces apolipoprotein C-II
        transcription in HepG2 cells in relation to mol. mechanism linking
        plasma triglyceride levels to bile acids)
     Genetic element
TΥ
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (farnesoid X-activated receptor response elements (FXREs) in HCR-1 and
        HCR-2; farnesoid X-activated receptor induces apolipoprotein C-II
        transcription in relation to mol. mechanism linking plasma triglyceride
        levels to bile acids)
IT
     Receptors
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (farnesoid X-activated; farnesoid X-activated receptor induces
        apolipoprotein C-II transcription in HepG2 cells in relation to mol.
        mechanism linking plasma triglyceride levels to bile acids)
TT
     Lipids, biological studies
     RL: BSU (Biological study, unclassified); PAC (Pharmacological activity);
     BIOL (Biological study)
        (hyperlipidemia; farnesoid X-activated receptor induces apolipoprotein
        C-II transcription in HepG2 cells in relation to mol. mechanism linking
        plasma triglyceride levels to bile acids)
IT
     Lipids, biological studies
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (metab., lipoprotein; farnesoid X-activated receptor induces
        apolipoprotein C-II transcription in HepG2 cells in relation to mol.
        mechanism linking plasma triglyceride levels to bile acids)
IT
     Proteins
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (phospholipid-exchanging; farnesoid X-activated receptor induces
        apolipoprotein C-II transcription in HepG2 cells in relation to mol.
        mechanism linking plasma triglyceride levels to bile acids)
IT
     57-88-5, Cholesterol, biological studies
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (farnesoid X-activated receptor induces apolipoprotein C-II
        transcription in HepG2 cells in relation to mol. mechanism linking
        plasma triglyceride levels to bile acids)
IT
                           81-25-4, Cholic acid
     53-41-8, Androsterone
                                                    83-44-3, Deoxycholic acid
     434-13-9, Lithocholic acid
                                474-25-9, Chenodeoxycholic acid
                                                                   71441-28-6,
            153559-57-0, LG100153
                                    278779-30-9, GW 4064
     RL: BSU (Biological study, unclassified); PAC (Pharmacological activity);
     BIOL (Biological study)
        (farnesoid X-activated receptor induces apolipoprotein C-II
        transcription in HepG2 cells in relation to mol. mechanism linking
        plasma triglyceride levels to bile acids)
     ANSWER 4 OF 154 CA COPYRIGHT 2003 ACS
L9
CC
     6-3 (General Biochemistry)
     Section cross-reference(s): 14
ST
     apolipoprotein CII amyloid alpha crystallin chaperone
IT
     Apolipoproteins
     RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
     (Biological study); PROC (Process)
        (C-II; inhibition of amyloid formation by apolipoprotein C-II by
        .alpha.-crystallin)
IT
     Chaperonins
     RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
     (Biological study); PROC (Process)
        (inhibition of amyloid formation by apolipoprotein C-II by mol.
        chaperone, .alpha.-crystallin)
IT
    Molecular association
        (inhibition of amyloid formation by apolipoprotein C-II by
```

.alpha.-crystallin)

```
IT
     Amyloid
     RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
     (Biological study); PROC (Process)
        (inhibition of amyloid formation by apolipoprotein C-II by
        .alpha.-crystallin)
     Conformation
TΤ
        (protein; inhibition of amyloid formation by apolipoprotein C-II by
        .alpha.-crystallin)
TТ
     Crystallins
     RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL
     (Biological study); PROC (Process)
        (.alpha.-; inhibition of amyloid formation by apolipoprotein C-II by
        .alpha.-crystallin)
     ANSWER 5 OF 154 CA COPYRIGHT 2003 ACS
L9
     6-3 (General Biochemistry)
CC
st
     phospholipid apolipoprotein C II amyloid fibril
IT
     Apolipoproteins
     RL: BPR (Biological process); BSU (Biological study, unclassified); PEP
     (Physical, engineering or chemical process); PRP (Properties); BIOL
     (Biological study); PROC (Process)
        (C-II; sub-micellar phospholipid accelerates amyloid formation by
        apolipoprotein C-II)
IT
     Secondary structure
        (protein; sub-micellar phospholipid accelerates amyloid formation by
        apolipoprotein C-II)
IT
     Aggregation
     Micelles
     Self-association
     .alpha.-Helix
        (sub-micellar phospholipid accelerates amyloid formation by
        apolipoprotein C-II)
IT
     Amyloid
     RL: BSU (Biological study, unclassified); MFM (Metabolic formation); PRP
     (Properties); BIOL (Biological study); FORM (Formation, nonpreparative)
        (sub-micellar phospholipid accelerates amyloid formation by
        apolipoprotein C-II)
IT
     53892-41-4, Dihexanoylphosphatidylcholine
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); PRP (Properties); BIOL (Biological study)
        (sub-micellar phospholipid accelerates amyloid formation by
        apolipoprotein C-II)
=> d ind 6-10
     ANSWER 6 OF 154 CA COPYRIGHT 2003 ACS
1.9
CC
     13-5 (Mammalian Biochemistry)
     Section cross-reference(s): 14
ST
     apolipoprotein CII gene expression myelomonocyte differentiation
IT
     Apolipoproteins
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (C-II; apolipoprotein C-II gene expression during myelomonocytic
        differentiation of human leukemic cells)
IT
    Animal cell line
        (HL-60; apolipoprotein C-II gene expression during myelomonocytic
        differentiation of human leukemic cells)
IT
     Animal cell line
        (THP-1; apolipoprotein C-II gene expression during myelomonocytic
        differentiation of human leukemic cells)
IT
     Animal cell line
        (U937; apolipoprotein C-II gene expression during myelomonocytic
        differentiation of human leukemic cells)
IT
     Cell differentiation
     Macrophage
```

Monocyte (apolipoprotein C-II gene expression during myelomonocytic differentiation of human leukemic cells) TΤ Atherosclerosis (apolipoprotein C-II gene expression during myelomonocytic differentiation of human leukemic cells in relation to) TΤ Gene, animal RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process) (apolipoprotein C-II; gene expression during myelomonocytic differentiation of human leukemic cells) ANSWER 7 OF 154 CA COPYRIGHT 2003 ACS 6-3 (General Biochemistry) CC apolipoprotein CII structure SDS micelle stITApolipoproteins RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process) (C-II; NMR structure of apolipoprotein C-II in presence of SDS provides insight into lipid interactions of apoC-II and mechanism of lipoprotein lipase activation) IT .alpha.-Helix (NMR structure of apolipoprotein C-II in presence of SDS reveals extensive region of .alpha.-helix in N-terminal half of apoC-II) IT Conformation (protein; NMR structure of apolipoprotein C-II in presence of SDS provides insight into lipid interactions of apoC-II and mechanism of lipoprotein lipase activation) IT 9004-02-8, Lipoprotein lipase RL: BSU (Biological study, unclassified); BIOL (Biological study) (NMR structure of apolipoprotein C-II in presence of SDS provides insight into lipid interactions of apoC-II and mechanism of lipoprotein lipase activation) IT 151-21-3, Sodium dodecyl sulfate, miscellaneous RL: MSC (Miscellaneous) (NMR structure of apolipoprotein C-II in presence of SDS provides insight into lipid interactions of apoC-II and mechanism of lipoprotein lipase activation) ANSWER 8 OF 154 CA COPYRIGHT 2003 ACS Ь9 14-10 (Mammalian Pathological Biochemistry) CC chromosome 19 locus apolipoprotein C11 multiple sclerosis polemic ST TTApolipoproteins RL: BSU (Biological study, unclassified); BIOL (Biological study) (C-II; chromosome 19 locus apolipoprotein C-II assocn. with multiple sclerosis in humans) ITGene, animal RL: BSU (Biological study, unclassified); BIOL (Biological study) (apoc2; chromosome 19 locus apolipoprotein C-II assocn. with multiple sclerosis in humans) Multiple sclerosis ΙT (chromosome 19 locus apolipoprotein C-II assocn. with multiple sclerosis in humans) IT Chromosome (human 19; chromosome 19 locus apolipoprotein C-II assocn. with multiple sclerosis in humans) ANSWER 9 OF 154 CA COPYRIGHT 2003 ACS L9 CC 6-3 (General Biochemistry) apolipoprotein C II conformation lipase activation sodium dodecylsulfate stdodecylphosphocholine IT Apolipoproteins RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process)

(C-II; structure of a biol. active fragment of human serum

dodecylphosphocholine) IT Conformation (protein; structure of a biol. active fragment of human serum apolipoprotein C-II in the presence of sodium dodecyl sulfate and dodecylphosphocholine) IT Lipoproteins RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process) (very-low-d.; structure of a biol. active fragment of human serum apolipoprotein C-II in the presence of sodium dodecyl sulfate and dodecylphosphocholine) 151-21-3, Sodium dodecyl sulfate, biological studies TТ 29557-51-5, Dodecylphosphocholine RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study) (structure of a biol. active fragment of human serum apolipoprotein C-II in the presence of sodium dodecyl sulfate and dodecylphosphocholine) 9001-62-1, Lipase IT RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process) (structure of a biol. active fragment of human serum apolipoprotein C-II in the presence of sodium dodecyl sulfate and dodecylphosphocholine) ANSWER 10 OF 154 CA COPYRIGHT 2003 ACS L9 6-3 (General Biochemistry) CC stapolipoprotein C II amyloid conformation ΙT Apolipoproteins RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process) (C-II; human apolipoprotein C-II aggregation and formation of twisted amyloid ribbons and closed loops) IT Fibril Self-association (human apolipoprotein C-II aggregation and formation of twisted amyloid ribbons and closed loops) IT Amvloid RL: PRP (Properties) (human apolipoprotein C-II aggregation and formation of twisted amyloid ribbons and closed loops) IT Conformation (loop, protein, protein; human apolipoprotein C-II aggregation and formation of twisted amyloid ribbons and closed loops) IT Conformation (protein; human apolipoprotein C-II aggregation and formation of twisted amyloid ribbons and closed loops) => s apolp-glu 159 APOLP 5 APOLPS 160 APOLP (APOLP OR APOLPS) 23076 GLU 17 GLUS 23091 GLU (GLU OR GLUS) L10 7 APOLP-GLU (APOLP(W)GLU) => d 1-7 ind

L10 ANSWER 1 OF 7 CA COPYRIGHT 2003 ACS

apolipoprotein C-II in the presence of sodium dodecyl sulfate and

```
CC
     7-2 (Enzymes)
ST
     lipoprotein lipase liver adipose
IT
     Liver, composition
        (lipoprotein lipase of, properties of adipose tissue-like)
     Adipose tissue, composition
IT
        (lipoprotein lipase of, properties of liver enzyme resembling)
     9004-02-8
TТ
     RL: BIOL (Biological study)
        (adipose tissue-like, in liver)
L10
     ANSWER 2 OF 7 CA COPYRIGHT 2003 ACS
     6-3 (General Biochemistry)
CC
ST
     blood serum lipoprotein peptide
     Lipoproteins
IT
     RL: BIOL (Biological study)
        (blood-serum low- and very-low-d., peptide compn. of)
L10
     ANSWER 3 OF 7 CA COPYRIGHT 2003 ACS
CC
     13-2 (Mammalian Biochemistry)
st
     plasma lipoprotein metab; heparin blood lipoprotein metab; protein lipid
     metab blood
IT
     Lipoproteins
     RL: BIOL (Biological study)
        (blood-plasma, metab. of very-low-d.)
IT
     9005-49-6
     RL: BIOL (Biological study)
        (very-low-d. lipoproteins metab. in in response to)
L10
     ANSWER 4 OF 7 CA COPYRIGHT 2003 ACS
     13-2 (Mammalian Biochemistry)
     lipoprotein apoprotein transfer plasma; very low density lipoprotein
ST
IT
     Lipoproteins
     RL: PRP (Properties)
        (blood-plasma very-low-density apo-transfer of, between plasma
        lipoproteins)
L10
     ANSWER 5 OF 7 CA COPYRIGHT 2003 ACS
CC
     7 (Enzymes)
     lipoprotein lipase inhibition
ST
IT
     Lipoproteins
     RL: BIOL (Biological study)
        (apoprotein of very low d., lipoprotein lipase inhibition by)
TT
     9004-02-8
     RL: PROC (Process)
        (inhibition of, by apoprotein of very low d. lipoprotein)
     ANSWER 6 OF 7 CA COPYRIGHT 2003 ACS
L10
     6 (General Biochemistry)
CC
ST
     plasma apolipoprotein structure; carboxyl terminal peptide apolipoprotein
IT
     Lipoproteins
     RL: BIOL (Biological study)
        (blood-plasma, C-terminal amino acids of very low-d. apo-)
L10
     ANSWER 7 OF 7 CA COPYRIGHT 2003 ACS
CC
     3 (Enzymes)
ST
     plasma clearing factors; lipoprotein lipases apoproteins; apoproteins
     lipoprotein lipases; lipases lipoprotein apoproteins
IT
     Lipoproteins
     RL: BIOL (Biological study)
        (glutamic acid C-terminal apoprotein of high-d., lipoprotein lipase
        activation by)
IT
     9004-02-8, Lipoprotein lipase
        (apoprotein activator for)
```

=> FIL REGISTRY

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 57.03 20.85 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION

0.00

-0.62

FILE 'REGISTRY' ENTERED AT 15:54:11 ON 08 JAN 2003

=> S 9005-49-6/RN

CA SUBSCRIBER PRICE

L11 1 9005-49-6/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND SET COMMAND COMPLETED

=> D L11 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y THE ESTIMATED COST FOR THIS REQUEST IS 5.63 U.S. DOLLARS DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y) / N: y

L11 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS RN9005-49-6 REGISTRY CN Heparin (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

.alpha.-Heparin CN

CN Bemiparin

CN Certoparin

CN Clexane

CN Clivarin

CN Clivarine

CN CY 216

CN CY 222

CN Dalteparin

CN Enoxaparin

CN Fluxum

CN FR 860

Fragmin A CN

Fragmin B CN

Fraxiparin CN

CNHeparin subcutan

CN Heparin sulfate

CN Heparinic acid

KB 101 CN

CN Multiparin

CN Novoheparin

CN OP 386

CNOP 622

CNPabyrn

CN Parnaparin

CN Parvoparin

CN Reviparin

CN Sandoparin

CN Sublingula

CN Tinzaparin

CN Vetren

CN Vitrum AB

DR 9075-96-1, 11078-24-3, 11129-39-8, 104521-37-1, 37324-73-5, 91449-79-5

MF Unspecified CI PMS, COM, MAN

PCT Manual registration, Polyester, Polyester formed

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DIOGENES, DRUGNL, DRUGPAT, DRUGU, DRUGUPDATES, EMBASE, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PHAR, PHARMASEARCH, PIRA, PROMT, RTECS*, TOXCENTER, USAN, USPAT2, USPATFULL

(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, WHO

(**Enter CHEMLIST File for up-to-date regulatory information)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

19667 REFERENCES IN FILE CA (1962 TO DATE)
1866 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
19693 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND SET COMMAND COMPLETED

=>

=> FIL REGISTRY

COST IN U.S. DOLLARS SINCE FILE TOTAL SESSION ENTRY FULL ESTIMATED COST 2.08 59.11 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION CA SUBSCRIBER PRICE 0.00 -0.62

FILE 'REGISTRY' ENTERED AT 15:55:04 ON 08 JAN 2003

=> S 9004-02-8/RN

L12 1 9004-02-8/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND SET COMMAND COMPLETED

=> D L12 RN CCN 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):Y THE ESTIMATED COST FOR THIS REQUEST IS 1.68 U.S. DOLLARS DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L12 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS

RN 9004-02-8 REGISTRY

CN Lipase, lipoprotein (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Clearing factor; Clearing factor lipase; E.C. 3.1.1.34; Lipemia-clearing factor; Lipoprotein lipase; LPL Amano 3; Postheparin lipase; Postheparin plasma lipoprotein lipase

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND SET COMMAND COMPLETED

=> file ca

COST IN U.S. DOLLARS

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE TOTAL COUNTS

SINCE FILE TOTAL COUNTS

SINCE FILE TOTAL COUNTS

ENTRY SESSION

FILE 'CA' ENTERED AT 15:56:00 ON 08 JAN 2003

=> d l10 bib hit

CA SUBSCRIBER PRICE

- L10 ANSWER 1 OF 7 CA COPYRIGHT 2003 ACS
- AN 88:18027 CA
- TI Identification of an adipose tissue-like lipoprotein lipase in perfusates of chicken liver

0.00

-0.62

- AU Bensadoun, Andre; Koh, Tung Liu
- CS Div. Nutr. Sci., Cornell Univ., Ithaca, NY, USA
- SO Journal of Lipid Research (1972), 18(6), 768-73 CODEN: JLPRAW; ISSN: 0022-2275
- DT Journal
- LA English
- AB The nature of the lipolytic activity released from chicken livers perfused with Krebs-Ringer buffer contg. heparin fraction V albumin and glycerol was investigated. The nonrecirculating perfusates contained the previously described NaCl-resistant liver lipase as well as an apolipoprotein (apolp-Glu)-activated lipoprotein lipase (LPL). Crude perfusate lipolytic activity was sepd. on heparin-Sepharose columns into 2 enzymic peaks which were eluted at different NaCl molarities. The liver LPL activity was stimulated by human apolp-Glu and inhibited by apolp-Ala, apolp-Ser, apolp-GlnI, and apolp-GlnII. Liver LPL was fully inhibited by anti-adipose LPL Igs. The liver lipase was not affected by apolp-Glu or anti-adipose LPL Igs. The data demonstrate the presence in liver perfusates of a LPL with properties similar to those of adipose tissue lipoprotein lipase.

=> d l10 bib hit 2-7

- L10 ANSWER 2 OF 7 CA COPYRIGHT 2003 ACS
- AN 82:150878 CA
- TI Comparison of the peptide composition of human serum low and very low density lipoprotein
- AU Rubenstein, Bernard; Steiner, George
- CS Dep. Med., Univ. Toronto, Toronto, ON, Can.
- SO Canadian Journal of Biochemistry (1975), 53(2), 128-34 CODEN: CJBIAE; ISSN: 0008-4018
- DT Journal
- LA English
- The apoprotein structure was examd. of human very-low-d. lipoprotein (VLDL) and 2 subfractions of human low-d. lipoproteins, LDL-2 (d. 1.026-1.046) and LDL-3 (d. 1.046-1.063). Both LDL-2 and LDL-3 had similar peptide patterns on polyacrylamide gel electrophoresis and this was the same as VLDL. Column chromatog. showed that the B component of the apoproteins of VLDL contained 42-5% of the total protein while the non-B component contained 55-6%. In both LDL-2 and LDL-3, the B component was 95% of the total protein whereas the non-B was 5%. An examn. of the peptides of the non-B portion of VLDL and LDL was carried out by DEAE-cellulose chromatog. Although both VLDL and LDL contained the same major peptides, the proportion of the total non-B of each of these

peptides in VLDL differed from that seen in LDL. ApoLP-Glu and apoLP-Ala of VLDL contained 13 and 65%, resp., of the total non-B protein, whereas in LDL these peptides were 26 and 46%. Thus apoLDL contains the non-B proteins of VLDL, but in different proportions and in a much reduced percentage.

- L10 ANSWER 3 OF 7 CA COPYRIGHT 2003 ACS
- AN 80:68682 CA
- TI Metabolic conversion of human plasma very low density lipoprotein to low density lipoprotein
- AU Eisenberg, Shlomo; Bilheimer, David W.; Levy, Robert L.; Lindgren, Frank T.
- CS Mol. Dis. Branch, Natl. Heart Lung Inst., Bethesda, MD, USA
- SO Biochimica et Biophysica Acta (1973), 326(3), 361-77 CODEN: BBACAQ; ISSN: 0006-3002
- DT Journal
- LA English
- The relation of 125I-labeled apoproteins of very-low-d. lipoprotein to AΒ that of other lipoproteins was studied in humans during steady-state conditions and following heparin injection. Heterogeneous metab. of very-low-d. lipoprotein apoproteins in normal individuals was apparent during steady-state conditions. Radioactivity was transferred to high-d. lipoprotein immediately in vivo. With time, radioactivity was also transferred to an intermediate-d. lipoprotein (d. = 1.006-1.019) and thereafter to low-d. lipoprotein (d. = 1.019-1.063). apoLP-glu and apoLP-ala (low-mol.-wt. apolipoproteins with CO2H-terminal glutamic acid and alanine, resp.), but not labeled apoprotein of low-d. lipoprotein (apoLDL), disappeared initially from very-low-d. lipoprotein (10 min after the injection). At later time intervals, the rate of disappearance of labeled apoLDL from very-low-d. lipoprotein (t1/2 = 2-4 hr), far exceeded that of labeled apoLPglu and apoLP-ala (t1/2 = 17-18 hr). Heparin affected primarily the distribution of apoprotein radioactivity between very-low-d. lipoprotein and high-d. lipoprotein and among very-low-d. lipoprotein subfractions. Forty-five min after heparin injection, a net transfer of >50% of labeled apoLP-glu and apoLP-ala from very-low-d. lipoprotein to high-d. lipoprotein occurred. Almost no change in content of labeled apoLDL in very-low-d. lipoprotein occurred during this interval. During the conversion of very-low-d. lipoprotein mols. of Sf 100-400 (mol. wt. 20 .times. 106-130 .times. 106) to low-d. lipoprotein (mol. wt. 2.2 .times. 106), all the apoLDL moiety of very-low-d. lipoprotein is preserved. In contrast, >95% of apoLP-ser, apoLP -glu and apoLP-ala, >99% of triglyceride, and >85% of the very-low-d. lipoprotein cholesterol and phospholipids are removed. Apparently, concomitantly with continuous triglyceride hydrolysis, apoLP-glu and apoLP-ala leave the very-low-d. lipoprotein d. range, resulting in mols. relatively poor in triglyceride and relatively rich in apoLDL. These mols. occupy a flotation rate range of Sf 12-60 and are transformed ultimately to low-d. lipoprotein, presumably by a different mechanism.
- L10 ANSWER 4 OF 7 CA COPYRIGHT 2003 ACS
- AN 77:124295 CA
- TI Metabolism of very low density lipoprotein proteins. II. Transfer of apoproteins between plasma lipoproteins
- AU Eisenberg, Shlomo; Bilheimer, David W.; Levy, Robert I.
- CS Natl. Heart Lung Inst., Natl. Inst. Health, Bethesda, MD, USA
- SO Biochimica et Biophysica Acta (1972), 280(1), 94-104 CODEN: BBACAQ; ISSN: 0006-3002
- DT Journal
- LA English
- AB Apolipoprotein-glutamic acid (apoLP-Glu) and apolipoprotein-alanine (apoLP-Ala), complexes, small mol. wt. apolipoproteins, readily transfer in vitro from very low d. lipoprotein to other lipoproteins. Their transfer to high d. lipoprotein always exceeds

that to low d. lipoproteins, and is proportional to the concn. of lipoproteins present in the incubation mixt. A similar transfer of radioactivity occurs in vivo, and is proportional to both plasma triglyceride and high d. lipoprotein cholesterol levels. The transfer of apoLP-Glu and apoLP-Ala between very low d. and high d. lipoproteins is bidirectional, and thus represents, at least in part, an exchange phenomenon. In contrast, the apoprotein moiety of low d. lipoprotein does not participate in this type of transfer. Apolipoproteins can be sepd. into groups following their reassocn. properties with lipids and lipoproteins. ApoLP-Glu and apoLP-Ala reassoc. with all plasma lipoproteins, predominantly very low d. and high d. lipropotein. Apolipoprotein-glutamine (apoLP-Gln1) and apolipoprotein-glutamine2 (apoLP-Gln2) reassoc. primarily with their parent lipoprotein, high d. lipoprotein. Representative proteins of both groups however, reassoc. with lipid (lecithin or triglyceride). The recombination of apoproteins with lipoproteins thus may be specific and involve a process of "recognition" of the lipoprotein by the apoprotein. This specificity may not be involved in the simple recombination of apolipoproteins and lipids. These observations may explain the distribution of apoproteins among plasma lipoproteins and and provide insight into their metabolic fate.

- L10 ANSWER 5 OF 7 CA COPYRIGHT 2003 ACS
- AN 76:96246 CA
- TI Inhibition of lipoprotein lipase by an apoprotein of human very low density lipoprotein
- AU Brown, W. Virgil; Baginsky, M. L.
- CS Sch. Med., Univ. California, La Jolla, CA, USA
- SO Biochemical and Biophysical Research Communications (1972), 46(2), 375-82 CODEN: BBRCA9; ISSN: 0006-291X
- DT Journal
- LA English
- AB The effects of 2 apolipoproteins isolated from human very low d. lipoproteins (apoLp-Glu and apoLp-Ala) on lipoprotein lipase (LPL) activity were studied. ApoLp-Glu stimulated LPL. ApoLp-Ala isolated by techniques previously described also activated LPL at low levels. However, with further purification by hydroxylaparite chromatog. all activation by apoLp-Ala was eliminated with the removal of a small contaminant immunochem. identical to apoLp-Glu. ApoLp-Ala consistently inhibits LPL when present at levels above 2% of the substrate. This inhibition was not overcome by addn. of phospholipid, apoLp-Glu, or more enzyme.
- L10 ANSWER 6 OF 7 CA COPYRIGHT 2003 ACS
- AN 76:31426 CA
- TI Correction of COOH-terminal amino acids of human plasma very low density apolipoproteins
- AU Herbert, Peter; Levy, Robert I.; Frederickson, Donald S.
- CS Natl. Heart Lung Inst., Natl. Inst. Health, Bethesda, MD, USA
- SO Journal of Biological Chemistry (1971), 246(22), 7068-9 CODEN: JBCHA3; ISSN: 0021-9258
- DT Journal
- LA English
- AB The COOH-terminal amino acids of the low mol. wt. apoproteins of human plasma very low d. lipoprotein were investigated. Previously these were designated by their apparent COOH-terminal amino acids as alanine apolipoprotein (apoLP-Ala), valine apolipoprotein (apoLP-Val), and glutamic acid apolipoprotein (apoLP-Glu). Alanine has been confirmed as the COOH terminus of apoLP-Ala. Serine rather than valine is the COOH-terminal amino acid of the polypeptide previously termed apoLP-Val. Hydrazinolysis releases both glutamic acid and valine in a molar ratio of 3:1 from the DEAE-cellulose fraction previously designated apoLP-Glu.

- AN 74:496 CA
- TI Specific apoprotein activator for lipoprotein lipase
- AU LaRosa, J. C.; Levy, Robert I.; Herbert, P.; Lux, S. E.; Fredrickson, Donald S.
- CS Natl. Heart Lung Inst., Natl. Inst. Health, Bethesda, MD, USA
- SO Biochemical and Biophysical Research Communications (1970), 41(1), 57-62 CODEN: BBRCA9; ISSN: 0006-291X
- DT Journal
- LA English
- AB Of 5 delipidated apoproteins isolated from high-density lipoproteins and identified by their carboxyterminal residues, only apolipoprotein-glutamic acid (apoLP-glu) activated rat adipose tissue lipoprotein lipase in vitro in the absence of phospholipids. In the presence of phospholipids, apolipoprotein-alanine (apoLP-ala) and apoLP-glu stimulated enzyme activity 2-fold and 12-fold, resp. Thus, apoLP-glu and perhaps apoLP-ala may be the obligatory cofactors for the hydrolytic step in clearing triglycerides from the plasma.

=> log y		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST .	17.70	79.29
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-4.34	-4.96

STN INTERNATIONAL LOGOFF AT 15:58:13 ON 08 JAN 2003